# THE TANK ROAD TO VICTORY OPENED

## How a New Weapon Has Helped Make It Possible to Turn Back the German Tide

By Theodore M. Knappen. Washington, August 17. ANKS are now the thing in military circles.

Awhile ago it was airplanes that were going to the war so far as it is to be won in actual conflict, but now it is

Men from every other arm of the military service are turning now to the tanks. Majors, captains and lieutenants are giving up their commissions in other services in order to enlist as privates in the "tanks."

Word has come back through the army channels of what one officer says and writes to another, that tanks will win this war as artillery won Napoleon's wars and as the British long-bows won in the Hundred Years' War.

The word runs that neither gas, doing it. airplanes nor massed artillery will be counted the epochal innovation of this war, but that the honor will be reserved for tanks. Even the tanks. The reason for this is that

#### See Hosts of Tanks Advance on Berlin

relentlessly on toward Berlin, fol- are bringing up against them. lowed by hosts of well protected in-

hundred thousand tanks on the front phenomenal success of the French now, the advance of the Allies to and British tanks, which in respect To the Tank Service the heart of Germany would be al- to the performance of the former The tank idea has taken the coun-

#### Save Our Men And Destroy Enemy's

ments of successful warfare. It de- ness stroys the enemy and conserves its own side's man power. The smaller tanks, or "whippets," as the British Of Smaller Tanks call them, are practically armored cavalry, only the steed is mechanitleships. Between the two the eager visionists foresee a return in principle to the warfare of the Middle knight errantry, when the effective bered more than 125,000 men. They

They believe that if Germany does not collapse in the near future the time will come when practically all no announcement has ever been made of what is actually being done the essential fighting in the nature of close contact with the enemy will being built or planned or the numbe done by a number of tanks large bers of the men that are to use absolutely but relatively small com-them. But there is no doubt that pared with the numbers of the them. But there is no doubt that the High Command is fully aware that will come behind them the High Command is fully aware. THE answer to German barbeco the engines and a crew. Guns are armies that will come behind them of the immense potentialities of to consolidate and organize what the tanks and firmly committed to their

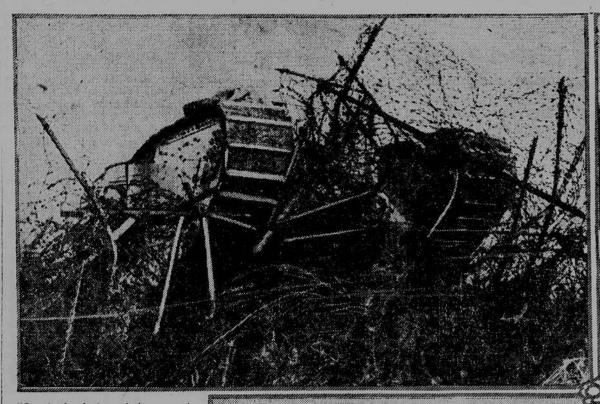
#### More Room for Tanks Than for Aeroplanes

It is conceded that the limitations on the number of airplanes that can to American automobile and truck the barbed wire and exterminate the by the British made a speed of the tank is in motion over rough as the manufacturing capacity and Ordnance Department transportation will permit it is possible to mass tanks at the front as In Charge of Work

hit by sword and arrow, but they reputed to be a man of great force No military secret of this war has expected their armor to save them and executive ability. His assistant been more successfully kept than the in most cases. The tank men expect is Captain Phil D. Poston. Briga- tank. their tanks to be hit, but, except for dier General S. D. Rockenbach is The Germans, soon recovered from the chance of a heavy projectile hit- commander of the tank service in their fright, at once began to ridicule ting them, they do not expect a hit France. It has been officially ad- the tank. They pointed out how vulto mean death or wounds. The mitted that there is one battalion of nerable the tank was to the smallest modern infantryman trusts for life the American tank service at the cannon and how easy it was to bring to chance and casual protection of front, but whether these machines field guns into the front line trench fixed barriers, such as trenches, are American or foreign made is to combat them. But all the while earthworks and the like. If he is not known. hit he is a casualty.

#### American Plans Carefully Hidden

THE MACHINES THAT BROKE THE GERMAN FRONT





haughty airmen are beginning to the Allies are away ahead of the think that the tortoiselike machine Germans in the development and use that keeps close to Mother Earth is of tanks and that the new ideas that the coming conquering instrument of are constantly being introduced into them are a large part of their effec-The German lives in daily dread of a new tank surprise, and it is

These may be but dreams of the important to satisfy this dread. The enthusiasts who do and get things Germans have testified that if the done, but they are very interesting British had had a thousand tanks and stimulating. Officers of the tank on hand when they first sprung them less squadrons of the new armored there in a chaotic German defeat. cavalry, or "charging artillery," as So now the Germans are kept in the

then resuming the irresistible march. property through the revelations of ment now at these camps. They believe that if there were a the battlefields. Even the recent Great Rush of Men brought out special acknowledgment try by storm, and such is the eager-

# Talk of Vast Numbers

ommend the enlargement of the tank service to the dimensions of the Sig-Ages and the days of feudalism and cluded the army air service, numtighting men of armies were practically confined to the mounted ing of not less than 100,000 of the small tanks for two men and pos-

No announcement has ever been tanks have won and make way for use on a large scale. It is held that

bodies to the chance of certain death medal of honor man of the Regular enemy without first reducing his or injury from a bullet or a piece Army, with service in the Spanish- barbed wire and accounting for most of shrapnel coming their way. American War, in the Philippines of his machine guns was suicide, The knights of old expected to be and in the Boxer expedition. He is nothing more or less.

been established. The camp at Get- capturing one or more of the British tysburg, Penn., is a concentration model they set to work devising their and preliminary training camp and is own. Just what the United States is in charge of Major D. D. Eisen- The formula for a tank appears doing to take advantage of this new hower. The advanced training camp to be little more than a caterpillar



service are already imagining count- the war would have ended then and The British "Whippet," good for 12 to 15 miles an hour, and a terror The French "mosquito," another fast recruit for the "steel cavalry."

the French are beginning to desig- dark both as to the numbers and with twenty-five assistant officers, cording to their special qualifica- The French did not introduce their, Anticipating the warfare of tanks nate them, as sweeping steadily and varieties of the tanks that the Allies who, after a thorough practical ex- tions, which depend largely on what tanks until the great offensive of the Germans soon developed ways perience with tanks in England and they did in civil life and their fight. April, 1917, along the Aisne. The and means of dealing with these Nothing of a definite nature is, France, will act as instructors for ing or mechanical qualities. The story goes that the French, with moving forts. In the front line forest to their right. fantry, pausing now and then for therefore, officially permitted to get the men and officers of the rapidly fighters—the machine gun men, ar- characteristic conservatism, awaited trenches they installed their sothe great guns to come up and blast out, and it would be most unwise and growing Tank Corps. No informa- tillerists and drivers—will be drawn, the outcome of the British experi- called anti-tank guns wherever the opened up their so-called "peace Allied tanks in battle and the Allied

the Germans out of some particu- unpatriotic to publish what is known, tion is available as to the numbers whether officers or privates, chiefly ment before sending their own tanks ground out front was favorable for storm" the French, anticipating the anti-tank defences. Already our allegements are already our allegements and the storm of th larly well defended stronghold and outside of what becomes public of men and the amount of equip- from the ranks of those who are not into battle. But despite the hilly tank manœuvres. It appears that move, prepared a counter offensive lies and ourselves have perfected mechanically skilled. Mechanics and and unfavorable terrain of the Aisne they employed discarded artillery for under the natural camouflage of the mines for dealing with tanks; we mechanical engineers will naturally battlefield the French tanks at once their anti-tank defences; cannon forest of Villers-Cotteret. It is said have mines that can be placed in proved their worth.

# To Ride the Tanks

Clemenceau of the pivotal character and mechanics and engineers, to forty years of age has just given up ing in the excellence of the personnel with the marines and the air is to charge on to Berlin. A film as good climbing qualities as the

That helped some. Numbers of largely of the nature of dress regun nests. This little piece is a service. Every man, whether for service manager on the Pacific coast British, although from a military Allied tanks were put out of action hearsals, so to speak, and a system counterpart of the famous French the fighting section or the mechani- has given up \$25,000 to do likewise. point of view it is better because it in various attacks. And with typi- of liaison had been perfected pre- 75-mm. or three-inch field gun, al-It is impossible to say anything cal side, is hand picked. Every ofthe lighting section of the factorial fluid from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmficer is promoted from the ranks of full leaders in civil life are swarmfile full leaders in civil life are swarmfile full leaders in civil life are swarmfile full leade cavalry, only the steed is mechanical and the driver sits inside instead of atop. The larger tanks are practically moving fortresses—land bat-Privates who have the natural the snarling wildcat that has been or "Panzerkraftwagen," which made equipment of officers are put through chosen as the emblem of the tank its debut during the offensives of prise attack in front of Cambrai. The

sioned they are assigned to duty ac- flower of the army.

# Tanks, Chief Weapon Against Barbed Wire and Machine Guns

By Austin C. Lescarboura

tank.

number of airplanes, because their trenched positions except after long machine guns. manufacture is not so novel a thing artillery preparation so as to cut up

The larger tanks first employed who pack the interior; in fact, when

the Germans saw the possibilities of Thus far two tank camps have this new form of attack, and after

in mystery. No other arm of the Clopton is in command there. He American farms, carrying a steel zervice is so secretive as that of the has recently returned from France box which houses a number of guns,

drift to the maintenance work. Give Up Big Salaries from General Pétain and Premier ness of strong men, natural fighters A well known business man about caterpillar belts over the top of the for firing point blank at advancing sters. The French tank crews had alof their achievements, has not ex- enter the service that it has become a salary of \$100,000 a year to enlist down so as to prevent a minimum cleaned their military household, and erating with infantry during the nu- fence, however, is the 37-mm. (1% The tank meets two great require- hausted Allied power and inventive- easy to make it a corps d'élite, rank- as a private, with the hope of being mark to enemy projectiles. This de-

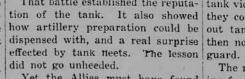
> is less vulnerable to damage. in their pugnacious aggressiveness | Then there is the German tank,

wire and machine guns is the of the Lewis type, in the British model, and of the Hotchkiss model Until the tank was introduced by in the French. Some of the tanks the utilization of tanks in immense the British during the Battle of the known as the "male" type, as disnumbers at an early date is much somme in 1916, it was well nigh immore feasible than that of a large possible to advance against in-

somewhere between three and five terrain the men manage to stand up the support of their artillery in the Are Tank Victories miles an hour. The diamond-like by means of straps, which seems rear. And the very fact that long ar- shape of the caterpillar belts per- quite to home for the New Yorker Cambraï Gave tillery preparation was required, mits these monsters to climb in and used to traveling in the subway dur- Tank Its Reputation fast as men can be trained to operate The production of the tanks is a running into days and even weeks, out of shell holes and to negotiate ing the rush hour! There are also them, and in time this number may function of the Ordnance Depart- gave the enemy ample warning that the most wretched terrain. Mud has folding seats. But as a whole the come practically to represent all the infantry so that it will be the collection of the tanks because German tank is a poor piece of entire to the tanks because German tank is a poor piece of entire to the tanks because the tank infantry—so that it will be the only charged with the task. The service result that he brought up his reof the large bearing surface afforded gineering; and its record on the how artillery preparation could be out tanks, for the Germans would thus making up for such wastage as kind of actual fighting, and men will corps in the United States is directed by the belt in contact with the battlefield does not contradict that dispensed with, and a real surprise then not have been caught off their improved German counter measures.

heavy and cumbersome. It weighs cess of the Allied tanks. The armament comprises one 47-mm. (1.85

extinct dodo.



The cavalry and tanks are far in advance of the infantry," said the official report. Here is a tank with the cavalry showing in the back-

(British Official Photo)

probably the so-called "mosquito," details of which are not available

### How Tanks Worked In Last Offensives

When the Germans, on July 15 the Allies in numbers and experience last, launched their ambitious offen- that they will have a hard time sive between Château Thierry and catching up. In fact, aside from their the Argonne foothills they had every "panzerkraftwagen" being poorly dehope and expectation of splitting up | signed, their main difficulty appears the French army, seizing Rheims, to be the lack of good material for Chalons and Epernay and rolling on crews. toward Paris with a Teuton peace | And allowing that the Germans as a reward. But they did not figure develop good tanks, in sufficient on the growing strength of the numbers and manned by skilled American army in France; nor did crews-and that is admitting somethey know what was going on in the thing that does not seem humani

which were worn out through con-In general principle the French stant firing and which were there- up during a thunderstorm, so that explode as the tank passes, raising tank follows its British counterpart. fore no longer accurate for long dis-However, instead of bringing the tance work, but were still available clanking belts of the chugging mon- air and letting it fall with a crash body the French bring theirs low tanks. So the Germans must have ready had ample experience in coop- The most important anti-tank decal Teuton self-pride they did not cluding the erstwhile blunder of let- though it is not mounted on wheels, fail to announce the fact to the world. ting the infantry get ahead of the being intended for the use of skir-Forthwith the Germans placed the tanks, or the tanks ahead of the in- mishers and therefore setting close to tank in the same category as the fantry. For the success of a tank the ground on its tripod support. Its operation of tanks and infantry as ing, high explosive variety can be

Then came General Byng's sur-The story of the Marne counter the Germans may employ, causing an officers' training school and on service. Take them all in all, physi- this year. In general design the graduation are commissioned as cally, mentally and culturally, the German tank presents nothing new. second lieutenants. When commistant and culturally, the German tank presents nothing new. an assault, helping them to get the usual artillery preparation, was size it can be brought into the front of the French tank, with a low caterpillar belt covered over by the front and sides—an improvement over Albardment of several days or even Germans were taken by surprise, trained crew of four men, two act Due to the scarcity of steel-hardening materials the Germans have

weeks had always been employed until that time on the Western front ening materials the Germans have

weeks had always been employed until that time on the Western front late. As a result they had to retire the gun, it can fire twenty-five aimed late. As a result they had to retire been forced to employ poor quality steel for their armor, and thickness and heavy plates have had to make and heavy plates have had to make artillery preparation. His preparation. His preparation are described in prisoners and booty.

Right on the heals of the Many

Right on the heels of the Marne tank long before it gets within damup for poor bullet-resisting qualities. tions and cohcentrations were cardisaster has come the present offen-Thus the German tank issextremely ried out with the greatest secrecy. Thus the German tank issextremely ried out with the greatest secrecy. Sive of the British and French, with Both the British and the American On a front of over twenty-five miles some American aid, in front of cans have adopted the 37-mm. can heavy and cumbersome. It weighs he sent his fleets of tanks into battle, Amiens and astride the Somme. non, which has come to be known followed by dashing British infan-Again the tank has been employed as the "tank wrecker" although orig try. The tanks went through the in large numbers to take the place inally intended for service against in.) cannon for direct fire ahead and stout German belts of barbed wire of the preliminary artillery bom- machine guns. on each side and astern. The crew completely by surprise, the German the British have gone into battle, America Making troops were simply rushed off their taking the Germans by surprise.

# tank guns into action and call for Marne and Somme

Both the Marne and Somme of asked the authorities in this country fensives, with their results in the for tanks of all kinds and in large form of 70,000 prisoners, 1,200 guns numbers. And our vast industrial and 10,000 machine guns, have been facilities should permit us to turn

The new tank tactics are interest- Little has been made public col Yet the Allies must have found ing from many angles. First of all, cerning our tanks now in process of their large tanks unsuited to the the tanks take the place of the usual construction. It is understood that conditions of warfare, for they set artillery preparation intended to we are making small tanks suit to work on smaller, two-man models clear the way through the barbed able for our quantity production which made their appearance the wire entanglements and to account methods. We are also making large earlier part of this year. The British for the enemy machine gun nests tanks; in fact, as an example of our small tank, known as the "whippet," while the attack is under way. The large tanks the authorities perm came into action during the first enemy front line is rushed before the publication of a photograph of German offensive of the year. It many of the tanks can be hit by a huge, forty-ton tank built by follows the lines of a conventional anti-tank cannon or other artillery, a concern near Boston, which was flat car provided with a low cater- Then, as the infantry continues to steam driven. The efficiency of steam pillar belt and mounting a turret advance the tanks, particularly the over oil power plants is too well that houses the crew and the ma- larger "male" model equipped with known to require explanation, and chine guns. It makes a speed in cannon, act as mobile artillery and the large American tank so equippe excess of twelve miles an hour, and solve that great problem of support- is bound to prove a great surpri has no difficulty in keeping up with ing advancing lines with guns. Von on the battlefield. leeing Huns. The French tank fol- Hutier, the German general who de- In the meantime, the tank is wed soon after, proving to be a vised the method of attack which weapon of surprise. The less the aller edition of the already fa- enabled the Huns to overrun great enemy hears about our tank plans miliar square-box model. But the areas of Allied territory during this the better our chances of a decision "baby" tank, like the British "whip- year's drives, makes use of special success when our "Treat Em Rous"

# America Hides Her Gigantic Plans for New Steel Cavalry To Be Ready for Big Offensive

vancing infantry. But even the lay. man can at once appreciate much more efficient is the tank with its added possibilities of attacking enemy German gunners, no matter where they may be, while immun against machine gun and rifle fire

### Lighter Tanks, The New Cavalry

The lighter tanks with their great speed can be used as special cavalry. Retreating Germans can be chased caught up with, machine gunned and crushed, and thrown into complete confusion. The "whippets" and the 'babies" and the "mosquitoes" can worm their way far into enemy territory, when the German line is once breached, and interfere with trans ports and retreating troops in war too numerous to describe. They car accompany cavalry just as they do infantry, taking care of troubleson machine guns whenever the regular cavalry is held up.

So all in all the tank has great possibilities in the battles to come Certain it is that the Germans, who have never failed to capitalize those methods used against them, are going to develop tank fleets of the own. But they are so far behind

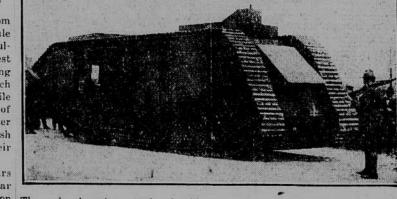
possible at this late stage of the Several days before the Germans game-they will have to face the

> diminutive shell of the armor-pier depended upon to penetrate any tank

## Great Fleet of Tanks

General Pershing is a great be liever in tanks. Undoubtedly he has may bring apout.

pet," is fast and readily manœuvred. highly-mobile trench mortars, or crews pilot their land ships on There is still another French tank, minenwerfer, for supporting his ad- way to Berlin.



THE BIGGEST AMERICAN TANK

phase of modern warfare is shrouded is at Tobyhanna, Penn. Colonel W. H. tractor of the type often seen on The only American tank of which pictures are permitted. A 45-ton (Copyright International Film Service).